

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,999	04/06/2004	Jeffrey Alan Kautzer	GEMS 0245 PUS	2998
27256 7590 03/07/2007 ARTZ & ARTZ, P.C. 28333 TELEGRAPH RD. SUITE 250 SOUTHFIELD, MI 48034			EXAMINER	
			SONG, HOON K	
			ART UNIT	PAPER NUMBER
00011111222	, 111 1000 1		2882	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		03/07/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

•						
	Application No.	Applicant(s)				
	10/708,999	KAUTZER ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hoon Song	2882				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of a Failure to reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status .						
1) Responsive to communication(s) filed on 21 D	ecember 2006.					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 16-19 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 16-19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on 20 February 2006 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	e: a) ☐ accepted or b) ☒ objected or b) ☒ objected drawing(s) be held in abeyance. Settion is required if the drawing(s) is ob	ee 37 CFR 1.85(a). pjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail I 5) Notice of Informal 6) Other:					

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "a first and second emitters couple to a mount" as claimed in claim 1; "at least three sources coupled to the platform" as claimed in claim 15 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered. (note: in the specification the first and second emitters or at least three sources are coupled to a support 14).

The drawings are objected to under 37 CFR 1.83(a) because they fail to show "a cooling system directly cooling an anode" as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d).

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an

application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: "emitter couple to a mount" as claimed in claim 1 and "at least three sources coupled to the platform" as claimed in claim 15 are not described in the specification. (in the specification, the at least three sources are couple to a mount not platform, see paragraph 22).

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 17 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear how a weld inspection or metal inspection's a computer is garneting adjustment signals as a function of parameters of patient tissue.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Application/Control Number: 10/708,999

Art Unit: 2882

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 16-17 and 19 rejected under 35 U.S.C. 102(b) as being anticipated by Perry et al. (US 6236709).

Regarding claim 16, Perry teaches a scanning system comprising:

a mount (10) comprising a platform (conveyer), wherein said mount further defines a holding area (tunnel) for supporting patient tissue;

a mount motor (conveyor) controller moving at least one of said mount or said platform in response to adjustment signals,

a detector (28) coupled to at least one of said mount or said platform and comprising a plurality of modules receiving a plurality of X-ray fluxes and generating detector signals therefrom;

at least three X-ray sources (40) coupled to said mount and arranged in an arc such that said at least three X-ray sources generating said plurality of X-ray signals for at least three different angles along said arc with respect to said detector; and

a computer generating said adjustment signals as a function of parameters of said patient tissue, said computer further generating an image signal as a function of said detector signals,

Regarding claim 17, Perry teaches said mount is arranged for a scanning procedure comprising at least one of mammography, computed tomography (CT), vascular X-ray imaging, bone scanning, weld inspection, or metal inspection.

Art Unit: 2882

Regarding claim 19, Perry teaches said plurality of X-ray sources electronically (switch) gate said plurality of X-ray fluxes.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Perry.

Regarding claim 18, Perry fails to teach at least one of a liquid cooling system, a common conditioner for said sources and said detector, or multiple chillers for said sources and said detector.

Liquid cooling system for x-ray system is known in the art.

It would have been obvious to one of ordinary skill in the art at the time of the invention to the x-ray imaging system of Perry with the known cooling system, since it would reduce the degradation of the system.

Response to Arguments

Applicant's arguments with respect to claims 16-19 have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

The indicated allowability of claims 16-19 is withdrawn in view of the newly discovered reference(s) to Perry. Rejections based on the newly cited reference(s) above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoon Song whose telephone number is (571) 272-2494.

The examiner can normally be reached on 9:30 AM - 7 PM, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Glick can be reached on (571) 272 - 2490. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LIKS